（2） より詳細な情報収集結果

[１] アクリロニトリル

試験系	試験方法	使用生物種・細胞株	試験結果 代謝活性化系 あり	試験結果 代謝活性化系 なし	文献番号
in vitro	復帰突然変異	ネズミチフス菌 TA100	＋	－	1
			＋	－	2
			(＋)	－	3
			－	－	4 他
			－	－	
			－	－	
		ネズミチフス菌 TA102	－	－	5 他
			－	－	
			－	－	
		ネズミチフス菌 TA1530	＋		6 他
			＋		
			＋		
			＋	－	1 他
			＋	－	
		ネズミチフス菌 TA1535	＋	－	1 他
			＋	－	
			＋	－	
			＋	－	
			＋	－	
			－	－	7
		ネズミチフス菌 TA1537	－	－	1 他
			－	－	
			－	－	
		ネズミチフス菌 TA1538	－	－	1 他
			－	－	
			－	－	
			－	－	
		ネズミチフス菌 TA98	－	－	1 他
			－	－	
			－	－	
			－	－	
			－	－	
		ネズミチフス菌 TA97	－	－	8 他
			－	－	
		大腸菌 WP2	＋	＋	9
			－	－	9
		酵母菌	＋	＋	10
			(＋)	＋	11
			－	－	12 他
			－	－	
			－	－	
			－	－	
	前進突然変異	ネズミチフス菌	－	＋	13
		酵母菌		＋	14
			－	－	11

		酵母菌	−	−	15
	遺伝子変換	酵母菌	＋	＋	11
			−	＋	16 他
			−	＋	
			＋	−	17
			−	−	12
	染色体の異数性	酵母菌	＋	＋	10
				−	18 他
				−	
	ホモ接合性	酵母菌	−	−	12
			＋	＋	10 他
			＋	＋	
				＋	18
			−	−	16
	相同染色体間の乗り換え	糸状菌		＋	19
	染色体異常	チャイニーズハムスター肺 CHL 細胞		＋	20
		チャイニーズハムスター肝臓 CH1-L 細胞		＋	21
		チャイニーズハムスター肺 CHL 細胞		＋	22
		チャイニーズハムスター卵巣 CHO 細胞	＋	＋	23
		チャイニーズハムスター細胞		(＋)	24
		チャイニーズハムスター卵巣 CHO 細胞	(＋)	−	25
		ラット肝臓 RL4 細胞		−	26
	紡錘体傷害	チャイニーズハムスター肝臓 CH1-L 細胞		−	27
	染色体の異数性			−	21
	遺伝子突然変異	チャイニーズハムスター肝臓 CH1-L 細胞	(＋)	(＋)	28
		マウスリンパ腫細胞	＋	＋	29 他
			＋	＋	
			＋	＋	
			＋	(＋)	30
			(＋)	(＋)	31
				＋	32
			＋	−	33
			−	*	34
			−	−	31
		マウス BALB/ c 3T3 細胞	＋		35
		ヒトリンパ芽球		＋	36
			(＋)	−	37
			＋	−	36
	細胞形質転換	マウス細胞	＋	(＋)	35
			(＋)	−	38
				＋	39
		シリアンハムスター胚細胞		＋	40 他
				＋	
				＋	
		マウス NIH/3T3 細胞		＋	39
		シリアンハムスター胚細胞		＋	41
	突然変異	ムラサキツユクサ属の 1 種		(＋)	42
	姉妹染色分体交換	チャイニーズハムスター卵巣 CHO 細胞	＋	−	43 他
			＋	−	
			＋	＋	25
		ラット肝臓 RL4 細胞		−	26

	アルカリ溶易部位の DNA 鎖切断	シリアンハムスター胚細胞		＋	41
		ラット肝細胞		＋	44
		チャイニーズハムスター卵巣 CHO 細胞	＋	＋	45
	不定期 DNA 合成	ラット肝細胞		－	46 他
				－	
				－	
	染色体異常	ヒトリンパ球		－	3
	アルカリ溶易部位の DNA 鎖切断	ヒト呼吸器官上皮細胞		＋	47
	不定期 DNA 合成	ヒト乳腺上皮細胞		－	48
	姉妹染色分体交換	ヒトリンパ球	＋	－	49
			－	－	50
		ヒト呼吸器官上皮細胞			3
in vivo	小核誘発	チャイニーズハムスター卵巣 CHO 細胞	＋	＋	45
	復帰突然変異	ラット、ネズミチフス菌 TA100,TA1535, TA1537, TA1538, TA98		－	51
	復帰突然変異	マウス、ラット、ネズミチフス菌 TA1530		(＋)	52
	小核誘発	マウス骨髄細胞		－	53
	染色体異常	マウス骨髄細胞		－	54 他
				－	
				－	
				－	
				－	
	優性致死	マウス		－	53 他
				－	
		ラット		－	55
	遺伝子の乗換え、組替え	ショウジョウバエ		－	56 他
				－	
	体細胞突然変異	ショウジョウバエ		＋	57 他
				＋	
				(＋)	58
	染色体の異数性	ショウジョウバエ		＋	59
	伴性劣性致死突然変異	ショウジョウバエ		－	60
	不定期 DNA 合成	ラット肝細胞		－	48
		ラット精子細胞		－	48
	姉妹染色分体交換	マウス骨髄細胞		(＋)	61
	細胞間コミュニケーション阻害	ハムスター肺細胞		(＋)	62
評価結果	上記のとおり、哺乳動物の培養細胞で染色体異常、小核誘発を認め、 in vivo 試験系でも小核誘発、染色体異常、DNA 傷害が認められたため、定量的なリスク評価を行う候補と考えられた。				

注：1）＋ 陽性； (＋) 弱い陽性 ；－ 陰性； * 結論が出なかったもの

空欄；試験系がないか、試験されなかったもの

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